Connor Douglas

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44 W 4th St., KMC 8-180, New York, NY 10012 | U.S. Citizen

BIO

My research interests broadly lie at the intersection of computation and economics. More specifically, I am interested in data-driven decision-making, adaptive learning and experimentation, and personalization.

I am grateful to be supported by the NSF Graduate Research Fellowship Program (GRFP) and NYU Stern doctoral program.

Interests: *machine learning, reinforcement learning, data-driven decision-making, personalization, markets, social media, multi-agent systems*

EDUCATION

New York University, Stern School of Business   2022 - Present

Ph.D. Information Systems — Technology, Operations, & Statistics department   *New York, NY*

- *Grade:* 3.9/4.0
- *Advisors:* Foster Provost, Arun Sundararajan

Washington University in St. Louis   2018 - 2022

B.S. Computer Science & Economics — McKelvey School of Engineering   *St. Louis, MO*

- *Grade:* 3.98/4.0, *Summa Cum Laude*
- *Minor:* Design

PROFESSIONAL EXPERIENCE

United Nations   Nov. 2023 – May 2024

Data Science Research Fellow   *New York, NY*

Adressing mis/disinformation in peacekeeping

- Studied methods for identifying mis/disinformation relevant to UN peacekeeping
- Constructed novel method of detecting coordinated behavior through semantic similarity of social media content
- Built social media monitoring tool to track narratives circulating on social media channels
- Designed sampling methods for adaptive learning of sentence embedding models

Genentech   May 2020 - May 2021

Software Engineering Intern   *South San Francisco, CA*

- Developed novel technique for creating structured data from unstructured clinical trial protocols
- Led project in developing full-stack clinical study management tool
- Designed and built front-end of question-answering tool ingesting protocol documents

PUBLICATIONS

Naive Algorithmic Collusion: When Do Bandit Learners Cooperate and When Do They Compete?
Connor Douglas, Foster Provost, Arun Sundararajan
Proceedings of ICIS 2024 (forthcoming). 2024.

Computing an Optimal Strategy in a Baseball At-bat
Connor Douglas, Everett Witt, Mia Bendy, Yevgeniy Vorobeychik
Proceedings of FLAIRS-36 Conference. 2023.

Techniques for Abstraction of Unstructured Clinical Trial Health Data
Lukas Corey*, Jennifer Crawford*, Connor Douglas*, Benjamin Fernandez*   *Equal Contributions
U.S. Patent Office Filing (PCT/US22/30369). 2022.

RESEARCH-IN-PROGRESS

Domain Adaptation of Sentence-level Embedding Models with LLM Feedback
Connor Douglas

Teaching Experience

Microeconomics (Undergraduate)	Fall 2024

Teaching Fellow
New York University — Stern School of Business

Intro. to Analytics and AI (Graduate)	Summer 2024

Teaching Fellow
New York University — Stern School of Business

Data Science for Business (Graduate)	Spring 2024

Teaching Fellow
New York University — Stern School of Business

Intro. to Econometrics (Undergraduate)	Spring 2022

Teaching Assistant
Washington University in St. Louis — Economics Department

Data Structures & Algorithms (Undergraduate)	Fall 2019, Spring 2020

Teaching Assistant
Washington University in St. Louis — Computer Science Department

Institutional Service

ISPOC	2024

Associate Organizer

Tau Beta Pi (WUSTL Chapter)	2021-2022

President

Engineers Without Borders (WUSTL Chapter)	2019-2021

Treasurer

Presentations and Invited Talks

Topics in Data Science: Guest lecture on multi-armed bandits and reinforcement learning. 2024.

FLAIRS-36 Conference: Oral presentation on *Computing an Optimal Strategy in a Baseball At-bat.* 2023.

Grants and Awards

NSF GRFP: Award won in Economics (2024); Total Funding: $159,000

National Merit Scholarship: Scholarship awarded by Pfizer (2018); Total Funding: $12,000

Selected Graduate Coursework

- *Advanced Topics in Data Driven Decision Making*
- *No-regret Learning in Games*
- *Machine Learning and Sequential Decision Making*
- *Stochastic Processes*
- *Topics in Data Science*
- *Topics in Digital Economics*
- *Technical Foundations of Information Systems*
- *Real Analysis*
- *Convex Optimization*
- *Reinforcement Learning*
- *Human-in-the-loop Computation*